

**Table J1b. - Physical Properties of the Soils**

Nicholas County, West Virginia

Entries under "Erosion Factors--T" apply to the entire profile. Entries under "Wind Erodibility Group" and "Wind Erodibility Index" apply only to the surface layer. Absence of an entry indicates that data were not estimated.

| Map Symbol<br>and Soil Name | Depth<br>In | Sand<br>Pct | Silt<br>Pct | Clay<br>pct | Moist Bulk<br>Density<br>g/cc | Permeability<br>(Ksat)<br>In/Hr | Available<br>Water<br>Capacity<br>In/In | Linear<br>Extensibility<br>Pct | Organic<br>Matter<br>Pct | Erosion<br>Factors |     |   | Wind<br>Erodibility<br>Group | Wind<br>Erodibility<br>Index |
|-----------------------------|-------------|-------------|-------------|-------------|-------------------------------|---------------------------------|---|--------------------------------|--------------------------|--------------------|-----|---|------------------------------|------------------------------|
|                             |             |             |             |             |                               |                                 |   |                                |                          | Kw                 | Kf  | T |                              |                              |
| BuB:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |   |                              |                              |
| Buchanan                    | 0-7         | 25-50       | 30-48       | 10-27       | 1.20-1.40                     | 0.6-2                           | 0.14-0.20                               | 0.0-2.9                        | 1.0-3.0                  | .32                | .32 | 3 | ---                          | 56                           |
|                             | 7-20        | ---         | ---         | 18-30       | 1.30-1.60                     | 0.6-2                           | 0.10-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |   |                              |                              |
|                             | 20-65       | ---         | ---         | 18-35       | 1.40-1.70                     | 0.06-0.2                        | 0.06-0.10                               | 0.0-2.9                        | ---                      | .17                | .24 |   |                              |                              |
| BuC:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |   |                              |                              |
| Buchanan                    | 0-7         | 25-50       | 30-48       | 10-27       | 1.20-1.40                     | 0.6-2                           | 0.14-0.20                               | 0.0-2.9                        | 1.0-3.0                  | .32                | .32 | 3 | ---                          | 56                           |
|                             | 7-20        | ---         | ---         | 18-30       | 1.30-1.60                     | 0.6-2                           | 0.10-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |   |                              |                              |
|                             | 20-65       | ---         | ---         | 18-35       | 1.40-1.70                     | 0.06-0.2                        | 0.06-0.10                               | 0.0-2.9                        | ---                      | .17                | .24 |   |                              |                              |
| BuD:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |   |                              |                              |
| Buchanan                    | 0-7         | 25-50       | 30-48       | 10-27       | 1.20-1.40                     | 0.6-2                           | 0.14-0.20                               | 0.0-2.9                        | 1.0-3.0                  | .32                | .32 | 3 | ---                          | 56                           |
|                             | 7-20        | ---         | ---         | 18-30       | 1.30-1.60                     | 0.6-2                           | 0.10-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |   |                              |                              |
|                             | 20-65       | ---         | ---         | 18-35       | 1.40-1.70                     | 0.06-0.2                        | 0.06-0.10                               | 0.0-2.9                        | ---                      | .17                | .24 |   |                              |                              |
| BvC:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |   |                              |                              |
| Buchanan                    | 0-7         | 55-80       | 5-45        | 10-27       | 1.20-1.40                     | 0.6-2                           | 0.12-0.18                               | 0.0-2.9                        | ---                      | .24                | .32 | 3 | ---                          | ---                          |
|                             | 7-20        | ---         | ---         | 18-30       | 1.30-1.60                     | 0.6-2                           | 0.10-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |   |                              |                              |
|                             | 20-65       | ---         | ---         | 18-35       | 1.40-1.70                     | 0.06-0.2                        | 0.06-0.10                               | 0.0-2.9                        | ---                      | .17                | .24 |   |                              |                              |
| BvE:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |   |                              |                              |
| Buchanan                    | 0-7         | 25-50       | 30-48       | 10-27       | 1.20-1.40                     | 0.6-2                           | 0.11-0.16                               | 0.0-2.9                        | ---                      | .24                | .32 | 3 | ---                          | ---                          |
|                             | 7-20        | ---         | ---         | 18-30       | 1.30-1.60                     | 0.6-2                           | 0.10-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |   |                              |                              |
|                             | 20-65       | ---         | ---         | 18-35       | 1.40-1.70                     | 0.06-0.2                        | 0.06-0.10                               | 0.0-2.9                        | ---                      | .17                | .24 |   |                              |                              |
| CeF:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |   |                              |                              |
| Cedarcreek                  | 0-2         | 25-50       | 30-48       | 18-27       | 1.35-1.65                     | 0.6-6                           | 0.07-0.16                               | 0.0-2.9                        | 0.5                      | .32                | .43 | 5 | 8                            | 0                            |
|                             | 2-65        | ---         | ---         | 18-27       | 1.35-1.65                     | 0.6-6                           | 0.07-0.16                               | 0.0-2.9                        | ---                      | .32                | .43 |   |                              |                              |

ChB:

**Table J1b. - Physical Properties of the Soils - Continued**

Nicholas County, West Virginia

| Map Symbol<br>and Soil Name | Depth<br>In | Sand<br>Pct | Silt<br>Pct | Clay<br>pct | Moist Bulk<br>Density<br>g/cc | Permeability<br>(Ksat)<br>In/Hr | Available<br>Water<br>Capacity<br>In/In | Linear<br>Extensibility<br>Pct | Organic<br>Matter<br>Pct | Erosion<br>Factors |     |     | Wind<br>Erodibility<br>Group | Wind<br>Erodibility<br>Index |
|-----------------------------|-------------|-------------|-------------|-------------|-------------------------------|---------------------------------|---|--------------------------------|--------------------------|--------------------|-----|-----|------------------------------|------------------------------|
|                             |             |             |             |             |                               |                                 |   |                                |                          | Kw                 | Kf  | T   |                              |                              |
| ChB:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |     |                              |                              |
| Chavies                     | 0-11        | 55-80       | 5-45        | 7-18        | 1.20-1.40                     | 2-6                             | 0.11-0.18                               | 0.0-2.9                        | 0.5-4.0                  | .24                | .24 | 4   | 3                            | 86                           |
|                             | 11-50       | ---         | ---         | 7-18        | 1.20-1.40                     | 2-6                             | 0.11-0.20                               | 0.0-2.9                        | ---                      | .24                | .24 |     |                              |                              |
|                             | 50-65       | ---         | ---         | 7-18        | 1.30-1.50                     | 2-6                             | 0.08-0.18                               | 0.0-2.9                        | ---                      | .24                | .24 |     |                              |                              |
| CoB:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |     |                              |                              |
| Cotaco                      | 0-7         | 10-40       | 50-78       | 7-27        | 1.20-1.40                     | 0.6-6                           | 0.12-0.20                               | 0.0-2.9                        | 0.5-4.0                  | .37                | .43 | 3   | 5                            | 56                           |
|                             | 7-65        | ---         | ---         | 18-35       | 1.20-1.50                     | 0.6-2                           | 0.07-0.15                               | 0.0-2.9                        | ---                      | .28                | .32 |     |                              |                              |
| Purdy                       | ---         | ---         | ---         | ---         | ---                           | ---                             | ---                                     | ---                            | ---                      | ---                | --- | --- | ---                          | ---                          |
| Cr:                         |             |             |             |             |                               |                                 |   |                                |                          |                    |     |     |                              |                              |
| Craigsville                 | 0-7         | 55-80       | 5-45        | 5-15        | 1.20-1.40                     | 2-20                            | 0.07-0.15                               | 0.0-2.9                        | 1.0-5.0                  | .17                | .28 | 3   | ---                          | 86                           |
|                             | 7-25        | ---         | ---         | 5-15        | 1.30-1.60                     | 2-20                            | 0.06-0.15                               | 0.0-2.9                        | ---                      | .17                | .28 |     |                              |                              |
|                             | 25-65       | ---         | ---         | 5-10        | 1.35-1.55                     | 6-20                            | 0.04-0.09                               | 0.0-2.9                        | ---                      | .17                | .28 |     |                              |                              |
| DeC:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |     |                              |                              |
| Dekalb                      | 0-6         | 55-80       | 5-45        | 10-20       | 1.20-1.50                     | 6-20                            | 0.08-0.12                               | 0.0-2.9                        | 2.0-4.0                  | .17                | .24 | 2   | ---                          | ---                          |
|                             | 6-20        | ---         | ---         | 7-18        | 1.20-1.50                     | 6-20                            | 0.06-0.12                               | 0.0-2.9                        | ---                      | .17                | .24 |     |                              |                              |
|                             | 20-24       | ---         | ---         | 5-15        | 1.20-1.50                     | 6-20                            | 0.05-0.10                               | 0.0-2.9                        | ---                      | .17                | .24 |     |                              |                              |
|                             | 24-28       | ---         | ---         | ---         | ---                           | 0.2-0.6                         | ---                                     | ---                            | ---                      | ---                | --- |     |                              |                              |
| DeE:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |     |                              |                              |
| Dekalb                      | 0-6         | 55-80       | 5-45        | 10-20       | 1.20-1.50                     | 6-20                            | 0.08-0.12                               | 0.0-2.9                        | 2.0-4.0                  | .17                | .24 | 2   | ---                          | ---                          |
|                             | 6-20        | ---         | ---         | 7-18        | 1.20-1.50                     | 6-20                            | 0.06-0.12                               | 0.0-2.9                        | ---                      | .17                | .24 |     |                              |                              |
|                             | 20-24       | ---         | ---         | 5-15        | 1.20-1.50                     | 6-20                            | 0.05-0.10                               | 0.0-2.9                        | ---                      | .17                | .24 |     |                              |                              |
|                             | 24-28       | ---         | ---         | ---         | ---                           | 0.2-0.6                         | ---                                     | ---                            | ---                      | ---                | --- |     |                              |                              |
| DeF:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |     |                              |                              |
| Dekalb                      | 0-6         | 55-80       | 5-45        | 10-20       | 1.20-1.50                     | 6-20                            | 0.08-0.12                               | 0.0-2.9                        | 2.0-4.0                  | .17                | .24 | 2   | ---                          | ---                          |
|                             | 6-20        | ---         | ---         | 7-18        | 1.20-1.50                     | 6-20                            | 0.06-0.12                               | 0.0-2.9                        | ---                      | .17                | .24 |     |                              |                              |
|                             | 20-24       | ---         | ---         | 5-15        | 1.20-1.50                     | 6-20                            | 0.05-0.10                               | 0.0-2.9                        | ---                      | .17                | .24 |     |                              |                              |
|                             | 24-28       | ---         | ---         | ---         | ---                           | 0.2-0.6                         | ---                                     | ---                            | ---                      | ---                | --- |     |                              |                              |

**Table J1b. - Physical Properties of the Soils - Continued**

Nicholas County, West Virginia

| Map Symbol<br>and Soil Name | Depth<br>In | Sand<br>Pct | Silt<br>Pct | Clay<br>pct | Moist Bulk<br>Density<br>g/cc | Permeability<br>(Ksat)<br>In/Hr | Available<br>Water<br>Capacity<br>In/In | Linear<br>Extensibility<br>Pct | Organic<br>Matter<br>Pct | Erosion<br>Factors |     |     | Wind<br>Erodibility<br>Group | Wind<br>Erodibility<br>Index |
|-----------------------------|-------------|-------------|-------------|-------------|-------------------------------|---------------------------------|---|--------------------------------|--------------------------|--------------------|-----|-----|------------------------------|------------------------------|
|                             |             |             |             |             |                               |                                 |   |                                |                          | Kw                 | Kf  | T   |                              |                              |
| DRF:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |     |                              |                              |
| Dekalb                      | 0-6         | 55-80       | 5-45        | 10-20       | 1.20-1.50                     | 6-20                            | 0.08-0.12                               | 0.0-2.9                        | 2.0-4.0                  | .17                | .24 | 2   | ---                          | ---                          |
|                             | 6-20        | ---         | ---         | 7-18        | 1.20-1.50                     | 6-20                            | 0.06-0.12                               | 0.0-2.9                        | ---                      | .17                | .24 |     |                              |                              |
|                             | 20-24       | ---         | ---         | 5-15        | 1.20-1.50                     | 6-20                            | 0.05-0.10                               | 0.0-2.9                        | ---                      | .17                | .24 |     |                              |                              |
|                             | 24-28       | ---         | ---         | ---         | ---                           | 0.2-0.6                         | ---                                     | ---                            | ---                      | ---                | --- |     |                              |                              |
| Buchanan                    | 0-7         | 25-50       | 30-48       | 10-27       | 1.20-1.40                     | 0.6-2                           | 0.14-0.20                               | 0.0-2.9                        | 1.0-3.0                  | .32                | .32 | --- | ---                          | ---                          |
|                             | 7-20        | ---         | ---         | 18-30       | 1.30-1.60                     | 0.6-2                           | 0.10-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |     |                              |                              |
|                             | 20-65       | ---         | ---         | 18-35       | 1.40-1.70                     | 0.06-0.2                        | 0.06-0.10                               | 0.0-2.9                        | ---                      | .17                | .24 |     |                              |                              |
| Other Soils                 | ---         | ---         | ---         | ---         | ---                           | ---                             | ---                                     | ---                            | ---                      | ---                | --- | --- | ---                          | ---                          |
| Rock Outcrop                | 0-60        | ---         | ---         | ---         | ---                           | ---                             | ---                                     | ---                            | ---                      | ---                | --- | --- | ---                          | 0                            |
| Ed:                         |             |             |             |             |                               |                                 |   |                                |                          |                    |     |     |                              |                              |
| Elkins                      | 0-8         | 5-40        | 55-78       | 18-30       | 1.20-1.50                     | 0.6-2                           | 0.18-0.24                               | 0.0-2.9                        | 1.0-5.0                  | .37                | .37 | 5   | ---                          | ---                          |
|                             | 8-36        | ---         | ---         | 18-35       | 1.30-1.60                     | 0.06-0.2                        | 0.12-0.16                               | 3.0-5.9                        | ---                      | .37                | .37 |     |                              |                              |
|                             | 36-65       | ---         | ---         | 7-27        | 1.30-1.60                     | 0.2-2                           | 0.10-0.14                               | 0.0-2.9                        | ---                      | .32                | .32 |     |                              |                              |
| Ep:                         |             |             |             |             |                               |                                 |   |                                |                          |                    |     |     |                              |                              |
| Elkins                      | 0-8         | 5-40        | 55-78       | 18-30       | 1.20-1.50                     | 0.6-2                           | 0.18-0.24                               | 0.0-2.9                        | 5.0-10                   | .37                | .37 | 5   | ---                          | ---                          |
|                             | 8-36        | ---         | ---         | 18-35       | 1.30-1.60                     | 0.06-0.2                        | 0.12-0.16                               | 3.0-5.9                        | ---                      | .37                | .37 |     |                              |                              |
|                             | 36-65       | ---         | ---         | 7-27        | 1.30-1.60                     | 0.2-2                           | 0.10-0.14                               | 0.0-2.9                        | ---                      | .32                | .32 |     |                              |                              |
| FeB:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |     |                              |                              |
| Fenwick                     | 0-8         | 10-40       | 50-78       | 10-27       | 1.20-1.40                     | 0.6-2                           | 0.12-0.16                               | 0.0-2.9                        | 1.0-4.0                  | .32                | .32 | 3   | ---                          | ---                          |
|                             | 8-25        | ---         | ---         | 18-35       | 1.20-1.50                     | 0.6-2                           | 0.10-0.16                               | 0.0-2.9                        | ---                      | .24                | .24 |     |                              |                              |
|                             | 25-38       | ---         | ---         | 18-30       | 1.40-1.70                     | 0.2-0.6                         | 0.08-0.14                               | 0.0-2.9                        | ---                      | .24                | .28 |     |                              |                              |
|                             | 38-42       | ---         | ---         | ---         | ---                           | 0.2-0.6                         | ---                                     | ---                            | ---                      | ---                | --- |     |                              |                              |

FeC:

**Table J1b. - Physical Properties of the Soils - Continued**

Nicholas County, West Virginia

| Map Symbol<br>and Soil Name | Depth<br>In | Sand<br>Pct | Silt<br>Pct | Clay<br>pct | Moist Bulk<br>Density<br>g/cc | Permeability<br>(Ksat)<br>In/Hr | Available<br>Water<br>Capacity<br>In/In | Linear<br>Extensibility<br>Pct | Organic<br>Matter<br>Pct | Erosion<br>Factors |     |   | Wind<br>Erodibility<br>Group | Wind<br>Erodibility<br>Index |
|-----------------------------|-------------|-------------|-------------|-------------|-------------------------------|---------------------------------|---|--------------------------------|--------------------------|--------------------|-----|---|------------------------------|------------------------------|
|                             |             |             |             |             |                               |                                 |   |                                |                          | Kw                 | Kf  | T |                              |                              |
| FeC:<br>Fenwick             | 0-8         | 10-40       | 50-78       | 10-27       | 1.20-1.40                     | 0.6-2                           | 0.12-0.16                               | 0.0-2.9                        | 1.0-4.0                  | .32                | .32 | 3 | ---                          | ---                          |
|                             | 8-25        | ---         | ---         | 18-35       | 1.20-1.50                     | 0.6-2                           | 0.10-0.16                               | 0.0-2.9                        | ---                      | .24                | .24 |   |                              |                              |
|                             | 25-38       | ---         | ---         | 18-30       | 1.40-1.70                     | 0.2-0.6                         | 0.08-0.14                               | 0.0-2.9                        | ---                      | .24                | .28 |   |                              |                              |
|                             | 38-42       | ---         | ---         | ---         | ---                           | 0.2-0.6                         | ---                                     | ---                            | ---                      | ---                | --- |   |                              |                              |
| FvB:<br>Fiveblock           | 0-4         | 55-80       | 5-45        | 5-18        | 1.35-1.65                     | 2-20                            | 0.05-0.12                               | 0.0-2.9                        | 0.5                      | .32                | .43 | 5 | 8                            | 0                            |
|                             | 4-65        | ---         | ---         | 5-18        | 1.35-1.65                     | 2-20                            | 0.05-0.12                               | 0.0-2.9                        | ---                      | .32                | .43 |   |                              |                              |
| FvF:<br>Fiveblock           | 0-4         | 55-80       | 5-45        | 5-18        | 1.35-1.65                     | 2-20                            | 0.05-0.12                               | 0.0-2.9                        | 0.5                      | .32                | .43 | 5 | 8                            | 0                            |
|                             | 4-65        | ---         | ---         | 5-18        | 1.35-1.65                     | 2-20                            | 0.05-0.12                               | 0.0-2.9                        | ---                      | .32                | .43 |   |                              |                              |
| GIB:<br>Gilpin              | 0-3         | 10-40       | 50-78       | 15-27       | 1.20-1.40                     | 0.6-2                           | 0.12-0.18                               | 0.0-2.9                        | 0.5-4.0                  | .32                | .32 | 3 | ---                          | ---                          |
|                             | 3-27        | ---         | ---         | 18-35       | 1.20-1.50                     | 0.6-2                           | 0.12-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |   |                              |                              |
|                             | 27-34       | ---         | ---         | 15-35       | 1.20-1.50                     | 0.6-2                           | 0.08-0.12                               | 0.0-2.9                        | ---                      | .24                | .32 |   |                              |                              |
|                             | ---         | ---         | ---         | ---         | ---                           | 0.0000-0.2                      | ---                                     | ---                            | ---                      | ---                | --- |   |                              |                              |
| GIC:<br>Gilpin              | 0-3         | 10-40       | 50-78       | 15-27       | 1.20-1.40                     | 0.6-2                           | 0.12-0.18                               | 0.0-2.9                        | 0.5-4.0                  | .32                | .32 | 3 | ---                          | ---                          |
|                             | 3-27        | ---         | ---         | 18-35       | 1.20-1.50                     | 0.6-2                           | 0.12-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |   |                              |                              |
|                             | 27-34       | ---         | ---         | 15-35       | 1.20-1.50                     | 0.6-2                           | 0.08-0.12                               | 0.0-2.9                        | ---                      | .24                | .32 |   |                              |                              |
|                             | 34-38       | ---         | ---         | ---         | ---                           | 0.0000-0.2                      | ---                                     | ---                            | ---                      | ---                | --- |   |                              |                              |
| GID:<br>Gilpin              | 0-3         | 10-40       | 50-78       | 15-27       | 1.20-1.40                     | 0.6-2                           | 0.12-0.18                               | 0.0-2.9                        | 0.5-4.0                  | .32                | .32 | 3 | ---                          | ---                          |
|                             | 3-27        | ---         | ---         | 18-35       | 1.20-1.50                     | 0.6-2                           | 0.12-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |   |                              |                              |
|                             | 27-34       | ---         | ---         | 15-35       | 1.20-1.50                     | 0.6-2                           | 0.08-0.12                               | 0.0-2.9                        | ---                      | .24                | .32 |   |                              |                              |
|                             | 34-38       | ---         | ---         | ---         | ---                           | 0.0000-0.2                      | ---                                     | ---                            | ---                      | ---                | --- |   |                              |                              |

GIE:

**Table J1b. - Physical Properties of the Soils - Continued**

Nicholas County, West Virginia

| Map Symbol<br>and Soil Name | Depth<br>In | Sand<br>Pct | Silt<br>Pct | Clay<br>pct | Moist Bulk<br>Density<br>g/cc | Permeability<br>(Ksat)<br>In/Hr | Available<br>Water<br>Capacity<br>In/In | Linear<br>Extensibility<br>Pct | Organic<br>Matter<br>Pct | Erosion<br>Factors |     |   | Wind<br>Erodibility<br>Group | Wind<br>Erodibility<br>Index |
|-----------------------------|-------------|-------------|-------------|-------------|-------------------------------|---------------------------------|---|--------------------------------|--------------------------|--------------------|-----|---|------------------------------|------------------------------|
|                             |             |             |             |             |                               |                                 |   |                                |                          | Kw                 | Kf  | T |                              |                              |
| GIE:<br>Gilpin              | 0-3         | 10-40       | 50-78       | 15-27       | 1.20-1.40                     | 0.6-2                           | 0.12-0.18                               | 0.0-2.9                        | 0.5-4.0                  | .32                | .32 | 3 | ---                          | ---                          |
|                             | 3-27        | ---         | ---         | 18-35       | 1.20-1.50                     | 0.6-2                           | 0.12-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |   |                              |                              |
|                             | 27-34       | ---         | ---         | 15-35       | 1.20-1.50                     | 0.6-2                           | 0.08-0.12                               | 0.0-2.9                        | ---                      | .24                | .32 |   |                              |                              |
|                             | 34-38       | ---         | ---         | ---         | ---                           | 0.0000-0.2                      | ---                                     | ---                            | ---                      | ---                | --- |   |                              |                              |
| GIF:<br>Gilpin              | 0-3         | 10-40       | 50-78       | 15-27       | 1.20-1.40                     | 0.6-2                           | 0.12-0.18                               | 0.0-2.9                        | 0.5-4.0                  | .32                | .32 | 3 | ---                          | ---                          |
|                             | 3-27        | ---         | ---         | 18-35       | 1.20-1.50                     | 0.6-2                           | 0.12-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |   |                              |                              |
|                             | 27-34       | ---         | ---         | 15-35       | 1.20-1.50                     | 0.6-2                           | 0.08-0.12                               | 0.0-2.9                        | ---                      | .24                | .32 |   |                              |                              |
|                             | 34-38       | ---         | ---         | ---         | ---                           | 0.0000-0.2                      | ---                                     | ---                            | ---                      | ---                | --- |   |                              |                              |
| GnC:<br>Gilpin              | 0-3         | 10-40       | 50-78       | 15-27       | 1.20-1.40                     | 0.6-2                           | 0.08-0.14                               | 0.0-2.9                        | ---                      | .24                | .32 | 3 | ---                          | ---                          |
|                             | 3-27        | ---         | ---         | 18-35       | 1.20-1.50                     | 0.6-2                           | 0.12-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |   |                              |                              |
|                             | 27-34       | ---         | ---         | 15-35       | 1.20-1.50                     | 0.6-2                           | 0.08-0.12                               | 0.0-2.9                        | ---                      | .24                | .32 |   |                              |                              |
|                             | 34-38       | ---         | ---         | ---         | ---                           | 0.0000-0.2                      | ---                                     | ---                            | ---                      | ---                | --- |   |                              |                              |
| GnE:<br>Gilpin              | 0-3         | 10-40       | 50-78       | 15-27       | 1.20-1.40                     | 0.6-2                           | 0.08-0.14                               | 0.0-2.9                        | ---                      | .24                | .32 | 3 | ---                          | ---                          |
|                             | 3-27        | ---         | ---         | 18-35       | 1.20-1.50                     | 0.6-2                           | 0.12-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |   |                              |                              |
|                             | 27-34       | ---         | ---         | 15-35       | 1.20-1.50                     | 0.6-2                           | 0.08-0.12                               | 0.0-2.9                        | ---                      | .24                | .32 |   |                              |                              |
|                             | 34-38       | ---         | ---         | ---         | ---                           | 0.0000-0.2                      | ---                                     | ---                            | ---                      | ---                | --- |   |                              |                              |
| GnF:<br>Gilpin              | 0-3         | 10-40       | 50-78       | 15-27       | 1.20-1.40                     | 0.6-2                           | 0.08-0.14                               | 0.0-2.9                        | ---                      | .24                | .32 | 3 | ---                          | ---                          |
|                             | 3-27        | ---         | ---         | 18-35       | 1.20-1.50                     | 0.6-2                           | 0.12-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |   |                              |                              |
|                             | 27-34       | ---         | ---         | 15-35       | 1.20-1.50                     | 0.6-2                           | 0.08-0.12                               | 0.0-2.9                        | ---                      | .24                | .32 |   |                              |                              |
|                             | 34-38       | ---         | ---         | ---         | ---                           | 0.0000-0.2                      | ---                                     | ---                            | ---                      | ---                | --- |   |                              |                              |
| GoF:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |   |                              |                              |

**Table J1b. - Physical Properties of the Soils - Continued**

Nicholas County, West Virginia

| Map Symbol<br>and Soil Name | Depth<br>In | Sand<br>Pct | Silt<br>Pct | Clay<br>pct | Moist Bulk<br>Density<br>g/cc | Permeability<br>(Ksat)<br>In/Hr | Available<br>Water<br>Capacity<br>In/In | Linear<br>Extensibility<br>Pct | Organic<br>Matter<br>Pct | Erosion<br>Factors |     |     | Wind<br>Erodibility<br>Group | Wind<br>Erodibility<br>Index |
|-----------------------------|-------------|-------------|-------------|-------------|-------------------------------|---------------------------------|---|--------------------------------|--------------------------|--------------------|-----|-----|------------------------------|------------------------------|
|                             |             |             |             |             |                               |                                 |   |                                |                          | Kw                 | Kf  | T   |                              |                              |
| GoF:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |     |                              |                              |
| Gilpin                      | 0-3         | 10-40       | 50-78       | 15-27       | 1.20-1.40                     | 0.6-2                           | 0.08-0.14                               | 0.0-2.9                        | ---                      | .24                | .32 | 3   | ---                          | ---                          |
|                             | 3-27        | ---         | ---         | 18-35       | 1.20-1.50                     | 0.6-2                           | 0.12-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |     |                              |                              |
|                             | 27-34       | ---         | ---         | 15-35       | 1.20-1.50                     | 0.6-2                           | 0.08-0.12                               | 0.0-2.9                        | ---                      | .24                | .32 |     |                              |                              |
|                             | 34-38       | ---         | ---         | ---         | ---                           | 0.0000-0.2                      | ---                                     | ---                            | ---                      | ---                | --- |     |                              |                              |
| Buchanan                    | 0-7         | 25-50       | 30-48       | 10-27       | 1.20-1.40                     | 0.6-2                           | 0.11-0.16                               | 0.0-2.9                        | ---                      | .24                | .32 | 3   | ---                          | ---                          |
|                             | 7-20        | ---         | ---         | 18-30       | 1.30-1.60                     | 0.6-2                           | 0.10-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |     |                              |                              |
|                             | 20-65       | ---         | ---         | 18-35       | 1.40-1.70                     | 0.06-0.2                        | 0.06-0.10                               | 0.0-2.9                        | ---                      | .17                | .24 |     |                              |                              |
| Other Soils                 | ---         | ---         | ---         | ---         | ---                           | ---                             | ---                                     | ---                            | ---                      | ---                | --- | --- | ---                          | ---                          |
| GPF:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |     |                              |                              |
| Gilpin                      | 0-3         | 10-40       | 50-78       | 15-27       | 1.20-1.40                     | 0.6-2                           | 0.08-0.14                               | 0.0-2.9                        | ---                      | .24                | .32 | 3   | ---                          | ---                          |
|                             | 3-27        | ---         | ---         | 18-35       | 1.20-1.50                     | 0.6-2                           | 0.12-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |     |                              |                              |
|                             | 27-34       | ---         | ---         | 15-35       | 1.20-1.50                     | 0.6-2                           | 0.08-0.12                               | 0.0-2.9                        | ---                      | .24                | .32 |     |                              |                              |
|                             | 34-38       | ---         | ---         | ---         | ---                           | 0.0000-0.2                      | ---                                     | ---                            | ---                      | ---                | --- |     |                              |                              |
| Pineville                   | 0-4         | 10-40       | 50-78       | 15-25       | 1.00-1.30                     | 0.6-2                           | 0.12-0.18                               | 0.0-2.9                        | 0.5-5.0                  | .20                | .24 | 4   | 8                            | 0                            |
|                             | 4-53        | ---         | ---         | 18-30       | 1.30-1.60                     | 0.6-2                           | 0.08-0.14                               | 0.0-2.9                        | ---                      | .15                | .17 |     |                              |                              |
|                             | 53-65       | ---         | ---         | 15-30       | 1.30-1.60                     | 0.6-6                           | 0.06-0.14                               | 0.0-2.9                        | ---                      | .15                | .20 |     |                              |                              |
| Guyandotte                  | 0-11        | 10-40       | 50-78       | 5-27        | 1.00-1.30                     | 0.6-6                           | 0.10-0.16                               | 0.0-2.9                        | 2.0-10                   | .10                | .20 | 4   | 8                            | 0                            |
|                             | 11-65       | ---         | ---         | 5-27        | 1.30-1.60                     | 0.6-6                           | 0.05-0.15                               | 0.0-2.9                        | ---                      | .17                | .24 |     |                              |                              |
| Other Soils                 | ---         | ---         | ---         | ---         | ---                           | ---                             | ---                                     | ---                            | ---                      | ---                | --- | --- | ---                          | ---                          |
| GuD:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |     |                              |                              |
| Gilpin                      | 0-3         | 10-40       | 50-78       | 15-27       | 1.20-1.40                     | 0.6-2                           | 0.12-0.18                               | 0.0-2.9                        | 0.5-4.0                  | .32                | .32 | 3   | ---                          | ---                          |
|                             | 3-27        | ---         | ---         | 18-35       | 1.20-1.50                     | 0.6-2                           | 0.12-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |     |                              |                              |
|                             | 27-34       | ---         | ---         | 15-35       | 1.20-1.50                     | 0.6-2                           | 0.08-0.12                               | 0.0-2.9                        | ---                      | .24                | .32 |     |                              |                              |
|                             | 34-38       | ---         | ---         | ---         | ---                           | 0.0000-0.2                      | ---                                     | ---                            | ---                      | ---                | --- |     |                              |                              |
| Other Soils                 | ---         | ---         | ---         | ---         | ---                           | ---                             | ---                                     | ---                            | ---                      | ---                | --- | --- | ---                          | ---                          |

**Table J1b. - Physical Properties of the Soils - Continued**

Nicholas County, West Virginia

| Map Symbol<br>and Soil Name | Depth<br>In | Sand<br>Pct | Silt<br>Pct | Clay<br>pct | Moist Bulk<br>Density<br>g/cc | Permeability<br>(Ksat)<br>In/Hr | Available<br>Water<br>Capacity<br>In/In | Linear<br>Extensibility<br>Pct | Organic<br>Matter<br>Pct | Erosion<br>Factors |     |   | Wind<br>Erodibility<br>Group | Wind<br>Erodibility<br>Index |
|-----------------------------|-------------|-------------|-------------|-------------|-------------------------------|---------------------------------|---|--------------------------------|--------------------------|--------------------|-----|---|------------------------------|------------------------------|
|                             |             |             |             |             |                               |                                 |   |                                |                          | Kw                 | Kf  | T |                              |                              |
| GuD:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |   |                              |                              |
| Upshur                      | 0-5         | ---         | ---         | 15-27       | 1.20-1.40                     | 0.6-2                           | 0.12-0.16                               | 3.0-5.9                        | 1.0-4.0                  | .43                | .43 | 3 | 6                            | 48                           |
|                             | 5-36        | ---         | ---         | 40-55       | 1.30-1.60                     | 0.06-0.2                        | 0.10-0.14                               | 6.0-8.9                        | ---                      | .32                | .32 |   |                              |                              |
|                             | 36-47       | ---         | ---         | 27-45       | 1.30-1.60                     | 0.06-0.2                        | 0.08-0.12                               | 3.0-5.9                        | ---                      | .32                | .32 |   |                              |                              |
|                             | 47-51       | ---         | ---         | ---         | ---                           | 0.0000-0.2                      | ---                                     | ---                            | ---                      | ---                | --- |   |                              |                              |
| GuE:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |   |                              |                              |
| Gilpin                      | 0-3         | 10-40       | 50-78       | 15-27       | 1.20-1.40                     | 0.6-2                           | 0.12-0.18                               | 0.0-2.9                        | 0.5-4.0                  | .32                | .32 | 3 | ---                          | ---                          |
|                             | 3-27        | ---         | ---         | 18-35       | 1.20-1.50                     | 0.6-2                           | 0.12-0.16                               | 0.0-2.9                        | ---                      | .24                | .28 |   |                              |                              |
|                             | 27-34       | ---         | ---         | 15-35       | 1.20-1.50                     | 0.6-2                           | 0.08-0.12                               | 0.0-2.9                        | ---                      | .24                | .32 |   |                              |                              |
|                             | 34-38       | ---         | ---         | ---         | ---                           | 0.0000-0.2                      | ---                                     | ---                            | ---                      | ---                | --- |   |                              |                              |
| Other Soils                 |             |             |             |             |                               |                                 |   |                                |                          |                    |     |   |                              |                              |
| Upshur                      | 0-5         | ---         | ---         | 15-27       | 1.20-1.40                     | 0.6-2                           | 0.12-0.16                               | 3.0-5.9                        | 1.0-4.0                  | .43                | .43 | 3 | 6                            | 48                           |
|                             | 5-36        | ---         | ---         | 40-55       | 1.30-1.60                     | 0.06-0.2                        | 0.10-0.14                               | 6.0-8.9                        | ---                      | .32                | .32 |   |                              |                              |
|                             | 36-47       | ---         | ---         | 27-45       | 1.30-1.60                     | 0.06-0.2                        | 0.08-0.12                               | 3.0-5.9                        | ---                      | .32                | .32 |   |                              |                              |
|                             | 47-51       | ---         | ---         | ---         | ---                           | 0.0000-0.2                      | ---                                     | ---                            | ---                      | ---                | --- |   |                              |                              |
| ItF:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |   |                              |                              |
| Itmann                      | 0-4         | 55-80       | ---         | 10-20       | 1.00-1.30                     | 0.6-6                           | 0.08-0.15                               | 0.0-2.9                        | 0.5                      | .32                | .37 | 5 | 8                            | 0                            |
|                             | 4-65        | ---         | ---         | 4-15        | 1.00-1.30                     | 2-20                            | 0.05-0.12                               | 0.0-2.9                        | ---                      | .32                | .43 |   |                              |                              |
| KaB:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |   |                              |                              |
| Kaymine                     | 0-2         | 25-50       | 5-45        | 18-27       | 1.35-1.65                     | 0.6-6                           | 0.07-0.16                               | 0.0-2.9                        | 0.5                      | .32                | .43 | 5 | 8                            | 0                            |
|                             | 2-65        | ---         | ---         | 18-27       | 1.35-1.65                     | 0.6-6                           | 0.07-0.16                               | 0.0-2.9                        | ---                      | .32                | .43 |   |                              |                              |
| KaF:                        |             |             |             |             |                               |                                 |   |                                |                          |                    |     |   |                              |                              |
| Kaymine                     | 0-2         | 25-50       | 5-45        | 18-27       | 1.35-1.65                     | 0.6-6                           | 0.07-0.16                               | 0.0-2.9                        | 0.5                      | .32                | .43 | 5 | 8                            | 0                            |
|                             | 2-65        | ---         | ---         | 18-27       | 1.35-1.65                     | 0.6-6                           | 0.07-0.16                               | 0.0-2.9                        | ---                      | .32                | .43 |   |                              |                              |

LIB:

**Table J1b. - Physical Properties of the Soils - Continued**

Nicholas County, West Virginia

| Map Symbol<br>and Soil Name | Depth<br>In | Sand<br>Pct | Silt<br>Pct | Clay<br>pct | Moist Bulk<br>Density<br>g/cc | Permeability<br>(Ksat)<br>In/Hr | Available<br>Water<br>Capacity<br>In/In | Linear<br>Extensibility<br>Pct | Organic<br>Matter<br>Pct | Erosion<br>Factors |     |   | Wind<br>Erodibility<br>Group | Wind<br>Erodibility<br>Index |
|-----------------------------|-------------|-------------|-------------|-------------|-------------------------------|---------------------------------|---|--------------------------------|--------------------------|--------------------|-----|---|------------------------------|------------------------------|
|                             |             |             |             |             |                               |                                 |   |                                |                          | Kw                 | Kf  | T |                              |                              |
| LIB:<br>Lily                | 0-10        | 25-50       | 30-48       | 7-27        | 1.20-1.40                     | 0.6-6                           | 0.13-0.18                               | 0.0-2.9                        | 0.5-4.0                  | .28                | .37 | 2 | ---                          | 56                           |
|                             | 10-18       | ---         | ---         | 18-35       | 1.25-1.35                     | 2-6                             | 0.12-0.18                               | 0.0-2.9                        | ---                      | .28                | .28 |   |                              |                              |
|                             | 18-28       | ---         | ---         | 20-35       | 1.25-1.35                     | 2-6                             | 0.08-0.17                               | 0.0-2.9                        | ---                      | .17                | .24 |   |                              |                              |
|                             | 28-32       | ---         | ---         | ---         | ---                           | 0.2-0.6                         | ---                                     | ---                            | ---                      | ---                | --- |   |                              |                              |
| LIC:<br>Lily                | 0-10        | 25-50       | 30-48       | 7-27        | 1.20-1.40                     | 0.6-6                           | 0.13-0.18                               | 0.0-2.9                        | 0.5-4.0                  | .28                | .37 | 2 | ---                          | 56                           |
|                             | 10-18       | ---         | ---         | 18-35       | 1.25-1.35                     | 2-6                             | 0.12-0.18                               | 0.0-2.9                        | ---                      | .28                | .28 |   |                              |                              |
|                             | 18-28       | ---         | ---         | 20-35       | 1.25-1.35                     | 2-6                             | 0.08-0.17                               | 0.0-2.9                        | ---                      | .17                | .24 |   |                              |                              |
|                             | 28-32       | ---         | ---         | ---         | ---                           | 0.2-0.6                         | ---                                     | ---                            | ---                      | ---                | --- |   |                              |                              |
| LID:<br>Lily                | 0-10        | 25-50       | 30-48       | 7-27        | 1.20-1.40                     | 0.6-6                           | 0.13-0.18                               | 0.0-2.9                        | 0.5-4.0                  | .28                | .37 | 2 | ---                          | 56                           |
|                             | 10-18       | ---         | ---         | 18-35       | 1.25-1.35                     | 2-6                             | 0.12-0.18                               | 0.0-2.9                        | ---                      | .28                | .28 |   |                              |                              |
|                             | 18-28       | ---         | ---         | 20-35       | 1.25-1.35                     | 2-6                             | 0.08-0.17                               | 0.0-2.9                        | ---                      | .17                | .24 |   |                              |                              |
|                             | 28-32       | ---         | ---         | ---         | ---                           | 0.2-0.6                         | ---                                     | ---                            | ---                      | ---                | --- |   |                              |                              |
| LIE:<br>Lily                | 0-10        | 25-50       | 30-48       | 7-27        | 1.20-1.40                     | 0.6-6                           | 0.13-0.18                               | 0.0-2.9                        | 0.5-4.0                  | .28                | .37 | 2 | ---                          | 56                           |
|                             | 10-25       | ---         | ---         | 18-35       | 1.25-1.35                     | 2-6                             | 0.12-0.18                               | 0.0-2.9                        | ---                      | .28                | .28 |   |                              |                              |
|                             | 25-28       | ---         | ---         | 20-35       | 1.25-1.35                     | 2-6                             | 0.08-0.17                               | 0.0-2.9                        | ---                      | .17                | .24 |   |                              |                              |
|                             | ---         | ---         | ---         | ---         | ---                           | 0.2-0.6                         | ---                                     | ---                            | ---                      | ---                | --- |   |                              |                              |
| MoB:<br>Monongahela         | 0-11        | 10-40       | 50-78       | 10-27       | 1.20-1.40                     | 0.6-2                           | 0.18-0.24                               | 0.0-2.9                        | 2.0-4.0                  | .43                | .43 | 3 | 5                            | 56                           |
|                             | 11-29       | ---         | ---         | 18-35       | 1.30-1.50                     | 0.6-2                           | 0.14-0.18                               | 0.0-2.9                        | ---                      | .43                | .43 |   |                              |                              |
|                             | 29-65       | ---         | ---         | 18-35       | 1.30-1.60                     | 0.06-0.6                        | 0.08-0.12                               | 0.0-2.9                        | ---                      | .43                | .49 |   |                              |                              |
| Pc:<br>Pope                 | 0-7         | 55-80       | 5-45        | 5-15        | 1.20-1.40                     | 2-6                             | 0.10-0.16                               | 0.0-2.9                        | 1.0-4.0                  | .28                | .28 | 5 | ---                          | 86                           |
|                             | 7-32        | ---         | ---         | 5-18        | 1.30-1.60                     | 0.6-6                           | 0.10-0.18                               | 0.0-2.9                        | ---                      | .28                | .28 |   |                              |                              |
|                             | 32-65       | ---         | ---         | 5-20        | 1.30-1.60                     | 0.6-6                           | 0.10-0.18                               | 0.0-2.9                        | ---                      | .28                | .20 |   |                              |                              |



**Table J1b. - Physical Properties of the Soils - Continued**

Nicholas County, West Virginia

| Map Symbol<br>and Soil Name | Depth<br>In | Sand<br>Pct | Silt<br>Pct | Clay<br>pct | Moist Bulk<br>Density<br>g/cc | Permeability<br>(Ksat)<br>In/Hr | Available<br>Water<br>Capacity<br>In/In | Linear<br>Extensibility<br>Pct | Organic<br>Matter<br>Pct | Erosion<br>Factors |     |     | Wind<br>Erodibility<br>Group | Wind<br>Erodibility<br>Index |
|-----------------------------|-------------|-------------|-------------|-------------|-------------------------------|---------------------------------|---|--------------------------------|--------------------------|--------------------|-----|-----|------------------------------|------------------------------|
|                             |             |             |             |             |                               |                                 |   |                                |                          | Kw                 | Kf  | T   |                              |                              |
| Pc:                         |             |             |             |             |                               |                                 |   |                                |                          |                    |     |     |                              |                              |
| Craigsville                 | 0-7         | 55-80       | 5-45        | 5-15        | 1.20-1.40                     | 2-20                            | 0.07-0.15                               | 0.0-2.9                        | 1.0-5.0                  | .17                | .28 | 3   | ---                          | 86                           |
|                             | 7-25        | ---         | ---         | 5-15        | 1.30-1.60                     | 2-20                            | 0.06-0.15                               | 0.0-2.9                        | ---                      | .17                | .28 |     |                              |                              |
|                             | 25-65       | ---         | ---         | 5-10        | 1.35-1.55                     | 6-20                            | 0.04-0.09                               | 0.0-2.9                        | ---                      | .17                | .28 |     |                              |                              |
| Other Soils                 | ---         | ---         | ---         | ---         | ---                           | ---                             | ---                                     | ---                            | ---                      | ---                | --- | --- | ---                          | ---                          |
| Elkins                      | ---         | ---         | ---         | ---         | ---                           | ---                             | ---                                     | ---                            | ---                      | ---                | --- | --- | ---                          | ---                          |
| Pu:                         |             |             |             |             |                               |                                 |   |                                |                          |                    |     |     |                              |                              |
| Purdy                       | 0-12        | 10-40       | 50-78       | 18-35       | 1.30-1.50                     | 0.2-0.6                         | 0.18-0.24                               | 3.0-5.9                        | 2.0-4.0                  | .43                | .43 | 3   | ---                          | ---                          |
|                             | 12-40       | ---         | ---         | 35-50       | 1.30-1.60                     | 0.06-0.2                        | 0.12-0.18                               | 3.0-5.9                        | ---                      | .32                | .32 |     |                              |                              |
|                             | 40-65       | ---         | ---         | 35-50       | 1.30-1.60                     | 0.06-0.2                        | 0.10-0.16                               | 3.0-5.9                        | ---                      | .32                | .32 |     |                              |                              |
| Ud:                         |             |             |             |             |                               |                                 |   |                                |                          |                    |     |     |                              |                              |
| Udorthents                  | ---         | ---         | ---         | ---         | ---                           | ---                             | ---                                     | ---                            | ---                      | ---                | --- | --- | ---                          | ---                          |
| W:                          |             |             |             |             |                               |                                 |   |                                |                          |                    |     |     |                              |                              |
| Water                       | ---         | ---         | ---         | ---         | ---                           | ---                             | ---                                     | ---                            | ---                      | ---                | --- | --- | ---                          | ---                          |